

1N5807 / US 1N5809 / US 1N5811 / US

TECHNICAL DATA DATA SHEET 127, REV.H.2

HERMETIC AXIAL / MELF HIGH EFFICIENCY RECTIFIER

SJ SX SV

- Hermetic, non-cavity glass package
- Metallurgically bonded
- Physical dimensions: Axial lead similar to E package and surface mount similar to D-5B
- Operating and Storage Temperature: -65°C to +175°

MAX. RATINGS / ELECTRICAL CHARACTERISTICS All ratings are at $T_A = 25^{\circ}$ C unless otherwise specified.

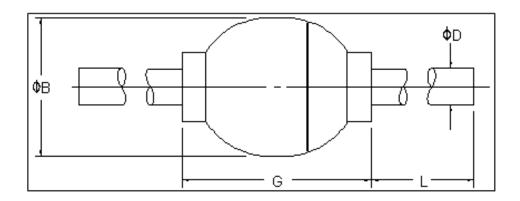
Rating	Symbol	Condition	Max	Units
WORKING PEAK REVERSE VOLTAGE 1N5807 / US 1N5809 / US 1N5811 / US	V _{WM}		50 100 150	Volts
AVERAGE RECTIFIED FORWARD CURRENT	Io	T _L = 75 °C	6.0	Amps
AVERAGE RECTIFIED FORWARD CURRENT	Io	T _A = 55 °C	3.0	Amps
PEAK FORWARD SURGE CURRENT	I _{FSM}	T _p =8.3ms	125	A(pk)
MAXIMUM REVERSE CURRENT	I _R @ V _{RWM}	T _j = 25 °C	5.0	μAmps
MAXIMUM REVERSE CURRENT	I _R @ V _{RWM}	T _j = 125 °C	525	μAmps
MAX. PEAK FORWARD VOLTAGE (PULSED) 300 μsec pulse, duty cycle < 2%	V _{FM}	I _{FM} =4.0A I _{FM} =6.0A	0.875 0.925	Volts
MAXIMUM REVERSE RECOVERY TIME	Trr	I _F =I _{RM} =0.5A I _{REC} =0.05A	30	ns
FORWARD RECOVERY VOLTAGE	V_{FRM}	I _F =500mA t _r =8ns	2.2	Volts
THERMAL RESISTANCE (Axial) 1N5807 thru 1N5811	Rθ _{JL}	L=.375	22	°C/W
THERMAL RESISTANCE (MELF) 1N5807US thru 1N5811US	Rθ _{JC}	L=0	6.5	°C/W

[•] World Wide Web Site - http://www.sensitron.com • E-Mail Address - sales@sensitron.com •



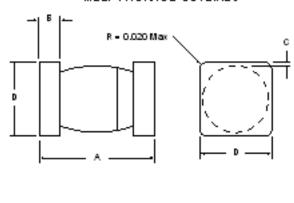
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MECHANICAL DIMENSIONS In Inches / (mm)



PACKAGE DIMENSIONS - INCHES (MILLIMETERS)					-
STYLE	ф⊟	φD	G	L	
304	.115/.142 2.92/3.61	.036/.042 .94/1.07	.130/.300 3.30/7.62	.90/1.30 22.9/33.0	

MELF PACKAGE OUTLINES



Note: Cathode side of device is indicated by a dark band marked on body.

PACKAGE STYLE	DIMENSIONS - INCHES / MILLIMETERS				
	Α	В	С	D	
MELF-B	.200/.225	0.019/.028	.003 Min	.137/.148	
	5.0/5.8	48/72	076 Min	3 4/3 8	

SENSITRON SEMICONDUCTOR 1N5807 / US 1N5809 / US 1N5811 / US

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